APPENDIX C
Implementation Monitoring Form (3/2/15)

Forest: Eldorado National Forest	District: Placerville	County: Eldorado

Observers: Steve G. Markman, Hydrologist	Date: June 4, 2015 Time: 1130

Number and/or name of road or trail: 10N14	UTM: 10S 0747580 4290453 } at road crossing of stream.
Meadow or Aquatic Feature reference number: 10N14-1	

Current Conditions

Current weather:

Cloudy.

Has it rained or has snow melted recently? If so, describe event (estimated rainfall amount, duration of storm, etc.):

Yes. Light rain in previous 29 hours.

Wetness of meadow or aquatic feature *(Select the best answer at the time of the survey)*

- ___ **Very wet** (Standing or flowing surface water present in all or a large portion of feature).
- ___ **Moderately wet** (Surface water in part of feature and/or ground surface wet in most of feature).
- X **Slightly wet** (No surface water. Ground surface wet in part of feature).
- ___ **Mostly dry** (No surface water. Ground surface dry in most of feature).
- ___ **Dry** (No surface water. Ground surface dry in entire feature).

Assessment of Corrective Action

What corrective actions were implemented? Select and fill out appropriate sections below.

X **Rolling dip/waterbar** (4) ___ **Sediment basin/trap** ___ **Gravel/rock reinforcement**

___ **Drivable ford** ___ **Trail re-route** ___ **other** (describe in section below)

Rolling dip/waterbar

Is water effectively routed off the trail? X Yes ___ No

Are rills or gullies present? ___ Yes X No

If yes, for what length? ___

Are they introducing sediment to the aquatic feature? ___ Yes ___ No

Does the rolling dip/waterbar need maintenance or reconstruction? ___ Yes X No

If yes, describe:

Comments: The 4 rolling dips are effectively routing runoff and sediment off of road before reaching the meadow and stream.

Sediment basin Not applicable.

Is the basin effective at catching all sediment? ___Yes ___ No

How full is basin with sediment? ___ empty ___ 25% ___ 50% ___ 75% ___ 100%

Does the basin need to be emptied? ___ Yes ___ No

Is additional work necessary for the sediment basin to function properly? ___ Yes ___ No

If yes, describe:

Comments

Gravel/rock placement Not applicable.

Has the gravel/rock remained in place? ___ Yes ___ No

Is there bare ground present where rock/gravel was placed? ___ Yes ___ No

If yes, how much? ___ <10% ___ 25% ___ 50% ___ >75%

Is additional gravel/rock necessary? ___ Yes ___ No

If yes, describe:

Comments:

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Drivable ford Not applicable

At the time of the survey, is water present? ____ Yes ____ No

Has any part of the hardened approach failed? ____ Yes ____ No

If yes, describe:

Is sediment being introduced from the approaches at the crossing? ____ Yes ____ No

If yes, describe:

Comments

Trail re-route Not applicable

Is there evidence of erosion or sedimentation on or originating from the new trail segment?

____ Yes ____ No *If yes, answer the following questions.*

What is the evidence of erosion or sedimentation?

____ rill erosion ____ gully erosion ____ sheet erosion ____ rutting

____ turbid water ____ sediment plume or accumulation

____ change in substrate composition ____ other (describe)

What are the sources of erosion or sedimentation? Check all that apply:

____ trail surface ____ trail cut-slope ____ trail fill-slope

____ unhardened crossing approach ____ poor trail location

____ rolling dip, water bar, other drainage feature ____ inadequate soil cover

____ insufficient number of water control features ____ improper grade

____ improper construction of water control features ____ bare ground on trail

____ other (describe):

Is the erosion or sedimentation impacting an aquatic feature? ____ Yes ____ No

If yes, what type of aquatic feature?

____ stream ____ meadow ____ wetland ____ spring/seep ____ fen

____ other aquatic feature (*describe:*)

Describe impacts to aquatic feature:

Describe any work necessary to fix erosion/sedimentation issues associated with the re-route:

Comments

Other corrective action (describe):

None.

Comments

Has the corrective action resulted in negative impacts elsewhere? ____ **Yes** X **No**

If yes, describe:

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Is there evidence of motorized use off of the trail? ____ **Yes** X **No** *If yes, describe:*
Is there evidence of chemical or fuel spills? ____ **Yes** X **No** *If yes, describe:*

Criteria for Rating Standard & Guideline 100 of the SNFPA
Does the road or trail intercept and divert surface and/or subsurface water from the aquatic feature such that the aquatic feature has decreased in size and/or wetness? ____ Yes X No *If yes, describe in comments section below.* Has runoff from the road or trail eroded sediment into the aquatic feature such that the size and/or wetness of the aquatic feature has been reduced? ____ Yes X No *If yes, describe in comments section below.* Has runoff from the road or trail caused a stream channel to downcut such that the water table has dropped and decreased the size and/or wetness of an aquatic feature? ____ Yes X No *If yes, describe in comments section below.*
Comments: The 4 rolling dips are effectively routing runoff and sediment off of road before reaching the meadow and stream.
Findings with Respect to Standard & Guideline 100
X **Yes.** S&G #100 is being met with regard to this trail and aquatic features. [signature], Hydrologist ____ **No.** S&G #100 is NOT being met with regard to this trail and aquatic features. *Must check yes to one or more of the questions above.* ____ **I.** Inconclusive. Field evidence not sufficient to determine if S&G 100 is being met.
S&G 100: Maintain and restore the hydrologic connectivity of streams, meadows, wetlands, and other special aquatic features by identifying roads and trails that intercept, divert, or disrupt natural surface and subsurface water flow paths. Implement corrective actions where necessary to restore connectivity.